CONTRACT

SPECIAL PROVISIONS

CSI-Inch/Pound

Project No:	SP-0134(3)0		
Name:	SR-134; FROM SR-37 TO SR-126 HMA OVERLAY		
	PAVEMENT PRESERVATION		
County:	WEBER		
Bid Opening:	August 12, 2003		

Date



2002 - U.S. Standard Units (Inch-Pound Units) June 3, 2003

Table of Contents

Project #SP-0134(3)0

I.	Statement of 2002 Standard Specifications for Road and Bridge Construction applicability
II.	List of Revised Standard Specifications
III.	List of Revised Standard Drawings
IV.	Materials Minimum Sampling and Testing
V.	Notice to Contractors
VI.	Equal Opportunity (State Projects)
VII.	Bidding Schedule
VIII.	Measurement and Payment
IX.	PDBS Project Summary Report
X.	PDBS Detailed Stationing Summaries Report
XI.	Location Map
XII.	Typical Sections or Detail Sheets
XIII.	Standard Drawing Index
XIV.	Special Provisions

Scope of Work

Manhole, and Monument Boxes

Project Specific Surfacing Requirements

Untreated Base Course

Pavement Marking Paint

Reconstruct Catch Basin, Cleanout, Meter, Valve,

1.

2.

3.

4.

5.

Section 00725M Section 01892M

Section 02721M

Section 02742S

Section 02765S

I. 2002 Standard Specifications

The State of Utah Standard Specifications for Road and Bridge Construction, U.S. Standard Units (Inch Pound Units) CSI Format, Edition of 2002 with Changes One and Two included applies on this project as a static Specification Book.

Refer to Part II (List of Revised Standard Specifications) and Part XIV (Special Provisions) for other project specific specifications.

II. List of Revised Standard Specifications

Change One – Included in 2002 Standard Specifications

Revised August 29, 2002

Section 00570 Articles 1.2 A 69, A 71 b (deleted)

Section 00727 Articles 1.1 D; 1.5 B; 1.9; 1.10; 1.16 B, C; 1.18 B

Section 01574 Articles 1.2 B

Section 02721 Articles 1.2 D (added), H (replaced), I (deleted);1.6 B1; 2.1 A Table 3; 3.2 C

Section 02741 Articles 3.8 E 2 a, b

Section 02821 Articles 3.1 A

Section 02892 Articles 1.5 A, B

Section 02936 Articles 1.4; 1.5 C

Section 03152 Articles 1.2 P, Q; 2.2 A, B

Section 05120 Articles 1.4 A (deleted), 3.3 A

Section 16525 Articles 1.6 A, B

Change Two - Included in 2002 Standard Specifications

Revised December 19, 2002

Section 01561 Article 3.1 A

Section 02075 Article 2.7 A

Section 02372 Article 2.1 A 4

Section 02455 Article 3.3 B 2

Section 02785 Article 3.2 C

Section 02861 Article 3.3 A

Section 03055 Articles 1.2 P (inserted), 2.3 B, 2.4 (deleted), 2.7 A 1 a-e (added), 2.7 B 2 (added), 2.8 A 1 a, 2.8 A 2 (deleted), 2.9 A3, 3.2 A Table, 3.2 C, 3.7 A 3, 3.8 C 1, 3.9 A-

B, 3.10, 3.11 B 1, 3.11 B 3

Section 07922 Article 2.1 Table 1

Change Three

Revised February 27, 2003

Section 01355 Article 1.3 A 3

Section 01721 1.4 C deleted and moved to Measurement and Payment document

Section 02222 Changed title from Site Demolition-Pavement to Site Demolition - Concrete, A, 3.2 Title, 3.2 A

Section 02224 New Specification

Section 02316 1.2 A, D, I added, 1.3 added, 1.7 B, C, D, E, F, G added, 3.9 A added

Section 02455 3.3 B 2 (corrected error from change two)

Section 02721 1.2 Related Sections added, 1.3 H and I added, 1.7 B, 1.7 F deleted, 2.1 B added, 2.2 deleted, 3.1 Title changed, 3.2 B reference added, 3.2 E added

Section 02741 1.4 C6a added, 1.4 H, Table 3, 2.4 A, 2.4 C, Table 9, 2.5 B 1-3, 2.5 B 4 added, 2.5 D, 3.1 Al deleted, 3.2 C3 added, 3.7 D1, 3.9 B4, 3.9 B5 added, 3.9 E note added

Section 02744 Entire Section deleted

Section 02745 1.4 A9

Section 02785 1.2 C and D added

Section 02892 Added Articles, 1.3 N, O, Y, 1.5 D, 2.4 I, 2.5 C, D, E, 2.6 B3 - B6, 2.6 C, 2.16, 2.17, 3.11 and Revised Articles 3.5 F and Table Number, 3.5 G and Table Number

Section 02896 2.1 A, B and 3.1 A drawing number corrected

Section 16525 1.2 H

Change Four

Revised April 24, 2003

Section 00555 1.18 added Table 1

Section 01280 1.2 K

Section 01282 1.13 B added, 1.13 G 2 deleted

Section 02222 1.2 B Title Changed

Section 02231 3.5 A

Section 02705 Title Changed, 1.1 A, 1.3 added, 3.1 Title changed, 3.1 A, 3.1 D moved, 3.2 added

Section 02741 3.7 B

Section 02747 Entire Section deleted

Section 02752 1.8 E 1

Section 02753 3.1 D 5 a, 3.3 D

Section 02842 2.4A

Section 02861 2.1 I

Section 02911 3.2 A 1

Section 02931 3.2 B

Section 03392 2.1 A 8-9

Section 03921 2.1 A 1, 2.1 C

Section 03922 2.1 B 1-2

Section 03923 2.1 A-B, 3.1 B

Section 03924 2.2 A-B

State-Orange Book With 8 ½" x 11" Plan Sheets

Section 03935 2.1 A, 2.1 A 2 Section 07105 2.3 A Section 13553 1.2 C Title Changed Section 13554 1.1 A, 1.3 C and D added, 2.1 A, 2.1 F, 2.2 D 1, 2.2 D 2 deleted, 2.2 E, 2.2 H, 2.2 H 2, 2.2 H 3 deleted and renumbered, 3.1 B 3 added, 3.1 I

III. Listing of Revised Standard Drawings

Change One

Revised December 19, 2002

AT 7	Polymer Concrete Junction Box Details	12/19/2002
BA 1A	Precast Concrete Full Barrier Standard Section	12/19/2002
BA 1B	Precast Concrete Full Barrier Standard Section	12/19/2002
BA 3	Cast In Place Constant Slope Barrier	12/19/2002
BA 4B	Beam Guardrail Installations	12/19/2002
BA 4C	Beam Guardrail Anchor Type I	12/19/2002
CC 6	Crash Cushion Type E Sand Barrel Details	12/19/2002
DG 3	Maximum Fill Height and End Sections for HDPE	
	And PVC Pipes	12/19/2002
DG 4	Pipe Culverts Minimum Cover	12/19/2002
EN 4	Temporary Erosion Control (Drop-Inlet Barriers)	12/19/2002
GW 1	Raised Median and Plowable End Section	12/19/2002
PV 2	Pavement Approach Slab Details	12/19/2002
SL 13	Traffic Counting Loop Detector Details	12/19/2002
SN 2	Flashing School Sign	12/19/2002
SN 4	Flashing Stop Sign	12/19/2002
SN 5	Typical Installation For Milepost Signs	12/19/2002
SN 8	Ground Mounted Timber Sign Post (P1)	12/19/2002
ST 1	Object Marker "T" Intersection and Pavement	
	Transition Guidance	12/19/2002
ST 7	Pavement Markings and Signs at Railroad Crossings	12/19/2002
SW 3A	Precast Concrete Noise Wall 1 of 2	12/19/2002
SW 3B	Precast Concrete Noise Wall 2 of 2	12/19/2002
SW 4A	Precast Concrete Retaining/Noise Wall 1 of 2	12/19/2002

Change Two

Revised February 27, 2003

GW 2	Concrete Curb and Gutter	02/27/2003
GW 5	Pedestrian Access	02/27/2003

Change Three

Revised April 24, 2003

AT 7	Polymer-Concrete Junction Box Details	04/24/2003
CB 2	Curb Inlet Catch Basin	04/24/2003
CC 7	Grading & Installation Details Crash Cushion Type F	04/24/2003
CC 8	Grading & Installation Details Crash Cushion Type G	04/24/2003
CC 9A	Grading & Installation Details Crash Cushion Type H	04/24/2003 (New)
CC 9B	Grading & Installation Details Crash Cushion Type H	04/24/2003 (New)
EN 2	Temporary Erosion Control (Silt Fence)	04/24/2003
GW 2	Concrete Curb and Gutter	04/24/2003
SN 12B	Ground Mounted Sign Installation Details	04/24/2003

IV. Materials Minimum Sampling and Testing

Follow the requirements of the Current Materials Minimum Sampling and Testing Manual:

Materials Minimum Sampling and Testing Manual reference can be found from the UDOT Web Site at:

http://www.dot.utah.gov/esd/Manuals/Materials/MaterialsSampling.htm

For UDOT employees the Manual can also be found on the Shared Drive at: \Shared\Engineering Services\Manuals\Materials (W drive for the Complex and R drive for the Regions)

V. Notice to Contractors



NOTICE TO CONTRACTORS

Sealed proposals will be received by the Utah Department of Transportation UDOT/DPS Building (4th Floor), 4501 South 2700 West, Salt Lake City, Utah. 84114-8220, until 2 o'clock p.m. Tuesday, August 12, 2003, and at that time the download process of bids from the USERTrust Vault to UDOT will begin, with the public opening of bids scheduled at 2:30 for PAVEMENT PRESERVATION of SR-134; FROM SR-37 TO SR-126 HMA OVERLAY in WEBER County, the same being identified as State Maintenance Project No: SP-0134(3)0.

Federal Regulations:

Wage Rate Non-Applicable.

Project Location: 11.3 Miles of Route: 0134 from R.P. 0.00 to R.P. 11.30

The principal items of work are as follows (for all items of work see attachment):

HMA Mix - 1/2 inch Reconstruct Manhole Emulsified Asphalt CSS-1H

The project is to be completed: in 30 Working Days.

Other Requirements:

All project bidding information, including Specifications and Plans, can be viewed, downloaded, and printed from UDOT's Project Development Construction Bid Opening Information website, http://www.dot.utah.gov/cns/bidopeninfo.htm. To bid on UDOT projects, bidders must use UDOT's Electronic Bid System (EBS). The EBS software and EBS training schedules are also available on this website.

Project information can also be reviewed at the main office in Salt Lake City, its Region offices, and its District offices in Price, Richfield, and Cedar City.

Project Plans cannot be downloaded or printed from the website unless your company is registered with UDOT. Go to UDOT's website to register. Unregistered companies may obtain a **CD**, that contains the Specifications and Plans, from the main office, 4501 South 2700 West, Salt Lake City, (801) 965-4346, for a fee of \$20.00, plus tax and mail charge, if applicable, none of which will be refunded.

Prequalification of bidders is required. Prior to submitting a bid, the bidder must have on file with the Utah Department of Transportation a completed and approved contractor's application for prequalification. Department processing time is 10 working days from receipt of properly executed documentation.

As required, a contractor's license must be obtained from the Utah Department of Commerce.

Each bidder must submit a bid bond from an approved surety company on forms provided by the Department; or in lieu thereof, cash, certified check, or cashier's check for not less than 5% of the total amount of the bid, made payable to the Utah Department of Transportation, showing evidence of good faith and a guarantee that if awarded the contract, the bidder will execute the contract and furnish the contract bonds as required.

The right to reject any or all bids is reserved.

If you need an accommodation under the Americans with Disabilities Act, contact the Construction Division at (801) 965-4346. Please allow three working days.

Additional information may be secured at the office of the Utah Department of Transportation, (801) 965-4346.

Dated this 26th day of July, 2003.

UTAH DEPARTMENT OF TRANSPORTATION John R. Njord, Director

VI. EQUAL OPPORTUNITY (STATE PROJECTS)

<u>Selection of Subcontractors, Service Providers, Procurement of Materials and Leasing of Equipment:</u>

Do not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

Notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.

Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. Use best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Obtain lists of DBE construction firms from SHA personnel.

Use best efforts to ensure subcontractor compliance with their EEO obligations.

Selection of Labor:

During the performance of this contract, do not discriminate against labor from any other State, possession, or territory of the United States.

Employment Practices:

During the performance of this contract, the Contractor agrees as follows:

Do not discriminate against any employee or applicant for employment because of race, religion, sex, color, national origin, age, or disability. Take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, religion, sex, color, national origin, age, or disability. Such action includes, but is not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoffs or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Agree to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the State Department of Transportation setting forth the provisions of this nondiscrimination clause.

In all solicitations or advertisements for employees state that all qualified applicants receive consideration for employment without regard to race, religion, sex, color, national origin, age, or disability.

Send to each labor union or representative of workers that the Contractor has a collective bargaining agreement or other contract or understanding, a notice to be provided by the State Department of Transportation advising the said labor union or worker' representative of the commitments under this section and post copies of the notice in conspicuous places available to employees and applicants for employment.

In the event of noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further State contracts.

Include the provisions of this Section in every subcontract or purchase order so that such provision will be binding upon each Subcontractor or vendor. Take such action with respect to any subcontract or purchase order as the State Department of Transportation may direct as a means of enforcing such provisions including sanctions for noncompliance.

VII. Bidding Schedule

Utah Department of Transportation Bidder's Schedule

Bid Opening Date: 8/12/2003Region: REGION 1Project Number: SP-0134(3)0County: WEBER

Project Name: SR-134; FROM SR-37 TO SR-126 HMA OVERLAY

Description: PAVEMENT PRESERVATION

Funding: MAINTENANCE

DBE Goal:

Item Description Quantity Unit

10 - F	ROADWAY			
1	012850010	Mobilization	1	lump sum
2	013150010	Public Information Services	1	lump sum
3	015540005	Traffic Control	1	lump sum
4	01892001*	Reconstruct Catch Basin	1	each
5	01892002*	Reconstruct Cleanout Box	3	each
6	01892004*	Reconstruct Valve Box	72	each
,	01892005*	Reconstruct Manhole	70	each
3	02721007*	Untreated Base Course (Shoulder Dressing) 3/4 inch or 1 inch Max	1325	ton
)	02721008*	Untreated Base Course 3/4 inch or 1 inch Max	225	ton
10	027410010	HMA Mix - 1/2 inch	17330	ton
11	027480060	Emulsified Asphalt CSS-1H	141	ton
2	02765002*	Pavement Message Paint	292	each
3	02765005*	Pavement Marking Paint	275	gallon

Page 1 of 1 7/22/2003 14:39:28

^{*}Note: Item numbers ending with "*" or "P" identify a change to the Standard Specification, Supplemental Specifications or Measurement and payment. Read all related documents carefully.

VII. MEASUREMENT AND PAYMENT

The Department will measure and pay for each bid item as detailed in this section.

Payment is contingent upon acceptance by the Department.

Items are listed by Specification and in tables as follows:

Section XXXXX: Section Name

Item #	Bid item number	Bid Item Name	Unit of measurement and payment
Additional inform	nation goes here.		

Section 01285: Mobilization

1	012850010	Mobilization	Lump sum
	Payment	Amount Paid	When Paid
	First	The lesser of 25% of mobilization or 2.5% of contract	With first estimate
	Second	The lesser of 25% of mobilization or 2.5% of contract	With estimate following completion of 5% of contract
	Third	The lesser of 25% of mobilization or 2.5% of contract	With estimate following completion of 10% of contract
	Fourth	The lesser of 25% of mobilization or 2.5% of contract	With estimate following completion of 20% of contract
	Final	Amount bid in excess of 10% of contract price.	Project Acceptance-Final

Section 01315: Public Information Services

2	013150010	Public Information Services	Lump Sum

- A. Includes compensation for:
 - 1. All fliers, public information office, telephone lines, and all other labor and materials required to complete the item.
 - 2. All costs for materials, installation, maintenance, and removal of the public information services signs.
- B. The Engineer will monitor the PIM and all public information services.
 - 1. When the Contractor provides acceptable public information services in accordance with these specifications, partial payments for the pay item "Public Information Services" will be made as the work progresses.
 - Failure to provide acceptable public information services will result in withholding of payment for this item.
 - 3. Partial payments made as follows:

% of Original Contract Earned	% of amount bid item
5	25
10	40 less all previous payments
25	50 less all previous payments
75	75 less all previous payments
100	100 less all previous payments

C. The term "original Contract amount" as used above means the amount bid for the construction items on this Contract, not including the amounts bid for Public Information Services and Mobilization.

Section 01554: Traffic Control

3	015540005	Traffic Control	Lump Sum
	Payment	Amount Paid	When Paid
	One	25% of the bid item amount	With first estimate
		Remaining portion of bid item paid as a percentage of the contract completed	With each estimate

Section 01892: Reconstruct Catch Basin, Cleanout, Meter, Valve, Manhole, and Monument Boxes

4	01892001*	Reconstruct Catch Basin	Each
In place	;		

Section 01892: Reconstruct Catch Basin, Cleanout, Meter, Valve, Manhole, and Monument Boxes

5	01892002*	Reconstruct Cleanout Box	Each
In place			

Section 01892: Reconstruct Catch Basin, Cleanout, Meter, Valve, Manhole, and Monument Boxes

6	01892004*	Reconstruct Valve Box	Each
In place			

Section 01892: Reconstruct Catch Basin, Cleanout, Meter, Valve, Manhole, and Monument Boxes

7	01892005*	Reconstruct Manhole	Each
In place	,		

Section 02721: Untreated Base Course (UTBC)

8	02721007*	Untreated Base Course (Shoulder Dressing) 3/4 inch or 1 inch Max	Ton
In place	;		

Section 02721: Untreated Base Course (UTBC)

9	02721008*	Untreated Base Course ¾ inch or 1 inch max.	Ton				
In place	In place						
Include	the cost of water:	for dust control and compaction in the unit cost for the item.					

Section 02741: Hot Mix Asphalt

10	027410010	HMA Mix- ½ inch	Ton, in place
Include	aggregates and al	l additives including hydrated lime and Asphalt Binder. The mass sh	ould be adjusted
using th	ne formula:		
F	inal Mass in Tons	= (2.756 x W)/Ga	
V	Where $W = Mass$ is	n Tons of HMA and	
	Ga = Average max	mum specific gravity of the mix	
(Rice N	Method - Current co	onsecutive running average of un to five tests)	

Section 02748: Prime Coat/Tack Coat

11	027480060	Emulsified Asphalt CSS-1H	Ton			
Diluted	Diluted one to one as verified by the vendor's certified invoice.					

Section 02765: Pavement Marking Paint

12	02765002*	Pavement Message Paint Each								
In plac	ce, measurement -	Painted Pavement Mes	ssages:	l .						
A.	Letter = one mes	ssage.	_							
B.	Arrow = one me	ssage.								
C.	C. Multi-headed arrow = one message per arrow.									
D.	= =									
E.	Crosswalk = two	messages per lane and t	wo messages per shoulder.							
F.	Stop Bar = one r	nessage per lane and one	message per shoulder.							
G.		g markings = seven mess								
	1. $R' = \text{one mes}$	sage each (two required)).							
	2. 'X' = two mes	ssages.								
	3. Transverse B	ar = one message each (t	wo required).							
	4. Stop $Bar = on$	e message.	•							
Payme	ent:	•								
A.	The Department	will not pay for removal	of unauthorized, smeared, or damaged	d markings.						
B.	Price reduction f	for paint application rate:	-	_						
Rate	Rate Pay Factor									
At the	At the specified rate 1.0									
	1-10 percent below the specified rate 0.75									
	11-15 percent below the specified rate 0.50									
		ow the specified rate	May be accepted at 0.40 percent or	r required to be repainted.						

Section 02765: Pavement Marking Paint

13	02765005*	Pavement Marking P	Gallon						
In pla	In place, Payment:								
A.	The Departmen	nt will not pay for remova	l of unauthorized, smeared, or damaged mark	ings.					
B.	Price reduction	for paint application rate	:	C					
		1 11							
Rate			Pay Factor						
At the	e specified rate		1.0						
1-10	percent below the	specified rate	0.75						
-	percent below the	-	0.50						
	1	elow the specified rate	May be accepted at 0.40 percent or requi	ired to be repainted.					

IX. PDBS Summary Report

Version: 1

275 gal

Project: SP-0134(3)0

SR-134; FROM SR-37 TO SR-126

Detail		Alt Group	Alt#	Description		
10 - ROADWAY		All Gloup 0	0	Description		
	Item Number	Description			Qty	Unit
	012850010	Mobilization			1	Lump
	013150010	Public Inform	ation Serv	vices	1	Lump
	015540005	Traffic Contro	ol		1	Lump
	01892001*	Reconstruct	Catch Bas	sin	1	Each
	01892002*	Reconstruct	Reconstruct Cleanout Box		3	Each
	01892004*	Reconstruct	Valve Box	<	72	Each
	01892005*	Reconstruct	Manhole		70	Each
	02721007*	Untreated Ba	ase Course	e (Shoulder Dressing) 3/4 inch or 1 inch Max	1,325	Ton
	02721008*	Untreated Ba	ase Course	e 3/4 inch or 1 inch Max	225	Ton
	027410010	HMA Mix - 1/	2 inch		17,330	Ton
	027480060	Emulsified A	sphalt CS	SS-1H	141	Ton
	02765002*	Pavement M	essage Pa	aint	292	Each

02765005*

Pavement Marking Paint

7/17/2003 Page 1 of 1

SR-134; FROM SR-37 TO SR-126

10 - ROADWAY Alt Group: 0 Alt #: 0

Item Number	Descript	tion			Use Q	ty Unit
01892001*	Reconstruct Catch	Basin			1	Each
Line/Sheet From	m Station From Offset	To Station	To Offset	Qty	Comment	
7.9		8.1		1.0	Catch Basin at intersection of 235	50 North in Plain City.
				1.0		
01892002*	Reconstruct Clean	out Box			3	B Each
Line/Sheet From	m Station From Offset	To Station	To Offset	Qty	Comment	
10.3	3	10.7		3.0	Reconstruct cleanout boxes.	
				3.0		

Version: 1

7/17/2003 ** For Information only Page 1 of 11

Version: 1

SR-134; FROM SR-37 TO SR-126

10 - ROADWAY

Alt Group: 0 Alt #: 0

Item Number	er Descript	on				Use Qty	Unit
01892004*	Reconstruct Valve	Вох				72	Each
Line/Sheet	From Station From Offset	To Station	To Offset	Qty	Comment		
	0.0	0.04		1.0	Water Valve		
	10.3	10.7		1.0	Water Valve		
	1500 NORTH			4.0	Water Valve		
	1600 SOUTH			1.0	Water Valve		
	1800 SOUTH			2.0	Water Valve		
	2125 NORTH			2.0	Water Valve		
	2200 SOUTH			2.0	Water Valve		
	2275 NORTH			1.0	Water Valve		
	2350 NORTH			1.0	Water Valve		
	2500 NORTH			1.0	Water Valve		
	2500 WEST			1.0	Water Valve		
	2550 SOUTH			3.0	Water Valve		
	2575 NORTH			2.0	Water Valve		
	3.7	3.8		3.0	Water Valve		
	3000 SOUTH			1.0	Water Valve		
	3300 SOUTH			3.0	Water Valve		
	3425 WEST			2.0	Water Valve		
	3450 SOUTH			1.0	Water Valve		
	3550 WEST			2.0	Water Valve		
	3600 WEST			2.0	Water Valve		
	3850 SOUTH			2.0	Water Valve		
	3975 WEST			1.0	Water Valve		
	400 SOUTH			1.0	Water Valve		
	4000 SOUTH			2.0	Water Valve		
	4100 WEST			2.0	Water Valve		
	4200 WEST			1.0	Water Valve		
	4275 WEST			2.0	Water Valve		
	4350 WEST			1.0	Water Valve		
	4425 WEST			3.0	Water Valve		
	4575 WEST			2.0	Water Valve		
	6.8	7.1		1.0	Water Valve		
	7.1	7.9		2.0	Water Valve		
	8.1	8.5		3.0	Water Valve		
	8.7	8.8		1.0	Water Valve		
	8.8	9.2		1.0	Water Valve		
	9.2	9.5		8.0	Water Valve		
	NEW ROAD			1.0	New road located to the Fremont.	ne west of the	west entrance of

Version: 1

SR-134; FROM SR-37 TO SR-126

Line/Sheet From Station From Offset	To Station	To Offset	Qty	Comment
SR-39			2.0	Water Valve
			72.0	

Note # Note

- 1 Quantity for bid only. Field verify and locate all valve boxes before construction.
- 2 Include all existing valve boxes that have no existing concrete collars.

7/17/2003 ** For Information only Page 3 of 11

SR-134; FROM SR-37 TO SR-126

10 - ROADWAY

Alt Group: 0

oup: 0 Alt #: 0

Item Number Description Use Qty Unit 01892005* **Reconstruct Manhole** 70 Each To Offset Line/Sheet From Station From Offset To Station Qty Comment 0.04 Manhole 3.7 5.0 10.3 10.7 1.0 Manhole 10.9 Manhole 11.3 3.0 1500 NORTH Manhole 1.0 Manhole **1975 NORTH** 3.0 **2125 NORTH** Manhole **2200 NORTH** 1.0 Manhole 2350 NORTH Manhole 1.0 Manhole **2500 NORTH** 1.0 2500 WEST 1.0 Manhole **2575 NORTH** Manhole 1.0 2575 WEST 2.0 Manhole **3300 SOUTH** Manhole 2.0 3425 WEST Manhole 3550 WEST Manhole 2.0 3600 WEST Manhole 2.0 **3850 SOUTH** Manhole 1.0 3975 WEST 1.0 Manhole 4100 WEST Manhole 1.0 4200 WEST Manhole 1.0 Manhole 4275 WEST 1.0 4350 WEST Manhole 4425 WEST Manhole 1.0 4500 WEST Manhole 1.0 Manhole 4575 WEST 1.0 6.8 7.1 3.0 Manhole 7.1 7.9 8.0 Manhole 7.9 Manhole 8.1 4.0 Manhole 8.1 8.5 4.0 8.7 8.8 1.0 Manhole Manhole 8.8 9.2 1.0 9.2 9.5 Manhole 8.0 New road located to the west of the west entrance of **NEW ROAD** 1.0 Fremont. SR-39 1.0 Manhole **2425 NORTH** Manhole 1.0 70.0

Version: 1

Detailed Report SP-0134(3)0 SR-134; FROM SR-37 TO SR-126

Version: 1

Note # Note

- 1 Field verify location and number of manholes to be reconstructed before construction begins.
- 2 Include all existing manholes that have no concrete collars.

02721007*	Untreated Base Co	urse (Shoulde	r Dressing)	3/4 inch or 1 inch	Max 1,325 Ton
Line/Sheet From	Station From Offset	To Station	To Offset	Qty	Comment
0.0		11.3		1,300.0	Used a max depth of 1.5 inches and a runout of 2.5 fee
350 N	NORTH			25.0	Single approach gravel intersection.
				1,325.0	

Note # Note

- 1 Assume a unit weight of 140 pounds per cubic foot.
- 2 Quantity includes leveling, grading, and compaction of material.

02721008*	Untreated Base Cou	urse 3/4 inch	or 1 inch Max	x	225 Ton
Line/Sheet Fi	rom Station From Offset	To Station	To Offset	Qty	Comment
.3	3	.35		140.0	Sub-base for intersection taper south of 3850 South
0.	.25	0.3		85.0	Sub-base for intersection taper north of 3850 South.
				225.0	

Note # Note

- 6 inch layer of compacted UTBC in preperation of asphalt. Use under new asphalt shoulder tapers at 3850 South. Item includes water needed for dust control and to compact to 95% of optimum.
- 2 Assume a unit weight of 140 pounds per cubic foot.

Version: 1

SR-134; FROM SR-37 TO SR-126

Alt #: 0

10 - ROADWAY Alt Group: 0

Item Number Description Use Qty Unit 027410010 HMA Mix - 1/2 inch 17,330 Ton Line/Sheet From Station From Offset To Station To Offset Qty Comment Assumed width of 30 feet. 0.0 0.04 60.0 0.25 0.3 100.0 6" lift of HMA req'd for north taper on 3850 South intersection. 0.3 0.35 150.0 6" lift of HMA req'd for south taper on 3850 Soutn intersection. 10.3 10.7 1,060.0 Assumed width of 55 feet. 10.7 10.9 245.0 Assumed width of 25 feet. 965.0 Assumed width of 50 feet. 10.9 11.3 100 NORTH 15.0 Single approach. 1400 SOUTH 15.0 Single approach. 1500 NORTH Twin approach. 30.0 1600 SOUTH 15.0 Single approach **1650 NORTH** Single approach. 15.0 **1800 SOUTH** 30.0 Twin approach. 1975 NORTH Single approach. 15.0 Single approach. **2125 NORTH** 15.0 **2200 NORTH** 30.0 Twin approach. 2200 SOUTH 30.0 Twin approach. **2275 NORTH** Twin approach. 30.0 2350 NORTH 30.0 Twin approach. **2400 SOUTH** Single approach. 15.0 **2425 NORTH** 30.0 Twin approach. **2500 NORTH** Twin approach. 30.0 2500 WEST Single approach. 15.0 2550 SOUTH 30.0 Twin approach. **2575 NORTH** 30.0 Twin approach. 2575 WEST 15.0 Single approach. 2800 SOUTH Single approach. 15.0 Assumed width of 40 feet. 3.7 3.8 190.0 3.8 4.8 1,195.0 Assumed width of 25 feet. 3000 SOUTH Single approach. 15.0 3300 SOUTH 30.0 Twin approach. 3425 WEST 15.0 Single approach. **3450 SOUTH** 15.0 Single approach. 3550 WEST Single approach. 15.0 3600 WEST Single approach. 15.0 3850 SOUTH Single approach. 15.0 3975 WEST 15.0 Single approach.

SR-134: FROM SR-37 TO SR-126

Version: 1

	S	SR-134; FRC			
Line/Sheet	From Station From Offset	To Station	To Offset	Qty	Comment
	4.8	5.2		515.0	Assumed width of 27 feet.
	400 SOUTH			15.0	Single approach.
	4000 SOUTH			20.0	Single approach.
	4100 WEST			15.0	Single approach.
	4200 WEST			15.0	Single approach.
	4275 WEST			15.0	Single approach.
	4350 WEST			15.0	Single approach.
	4425 WEST			30.0	Twin approach.
	4500 WEST			30.0	Twin approach.
	4575 WEST			30.0	Twin approach.
	5.2	6.0		960.0	Assumed width of 25 feet.
	500 SOUTH			15.0	Single approach
	6.0	6.3		390.0	Assumed width of 27 feet.
	6.3	6.5		440.0	Assumed width of 45 feet.
	6.5	6.6		150.0	Assumed width of 30 feet.
	6.6	6.7		225.0	Assumed width of 45 feet.
	6.7	6.8		135.0	Assumed width of 27 feet.
	6.8	7.1		870.0	Assumed width of 60 feet.
	7.1	7.9		960.0	Assumed width of 25 feet.
	7.9	8.1		490.0	Assumed width of 50 feet.
	8.1	8.5		485.0	Assumed width of 25 feet.
	8.5	8.7		260.0	Assumed width of 26 feet.
	8.7	8.8		200.0	Assumed width of 40 feet.
	8.8	9.2		485.0	Assumed width of 25 feet.
	9.2	9.5		560.0	Assumed width of 40 feet.
	9.5	10.3		960.0	Assumed width of 25 feet.
	900 SOUTH			15.0	Single approach
	950 NORTH			15.0	Single approach.
	NEW ROAD			15.0	Single approach. New road located to the west of the \ensuremath{w} entrance of Fremont.
	SR-39			100.0	Twin approach.
	0.04	3.7		4,350.0	Assumed width of 25 feet.
				17,330.0	

Note # Note

- 1 Assume a unit weight of 144 pounds per cubic foot.
- 2 Assume that the depth of the overlay is 1.5 inches unless otherwise specified in the comments.
- 3 Quantities for the intersection approaches are assumed and should only be used for bidding purposes.
- 4 Tie asphalt section to gutter in areas that have curb and gutter. Other areas tie aphalt section to existing shoulder or travel lane.

Version: 1

SR-134; FROM SR-37 TO SR-126

10 - ROADWAY Alt Group: 0 Alt #: 0

 	Ait Gloup.				
Item Number	Descripti	on			Use Qty Unit
027480060	Emulsified Asphalt	CSS-1H			141 Ton
Line/Sheet Fr	om Station From Offset	To Station	To Offset	Qty	Comment
0.	0	0.04		0.5	Assumed width of 30 feet.
0.	25	0.3		1.0	North taper on 3850 South intersection.
0.	3	0.35		1.0	South taper on 3850 South intersection.
10	0.3	10.7		8.0	Assumed width of 55 feet.
10).7	10.9		2.0	Assumed width of 25 feet.
10	0.9	11.3		7.5	Assumed width of 50 feet.
10	00 NORTH			0.25	Single approach.
14	400 SOUTH			0.25	Single approach.
15	500 NORTH			0.5	Twin approach.
16	600 SOUTH			0.25	Single approach
16	550 NORTH			0.25	Single approach.
18	300 SOUTH			0.5	Twin approach.
19	975 NORTH			0.25	Single approach.
2	125 NORTH			0.25	Single approach.
22	200 SOUTH			0.5	Twin approach.
22	275 NORTH			0.5	Twin approach.
23	350 NORTH			0.5	Twin approach.
24	100 SOUTH			0.25	Single approach.
24	125 NORTH			0.5	Twin approach.
25	500 NORTH			0.5	Twin approach.
25	500 WEST			0.25	Single approach.
25	550 SOUTH			0.5	Twin approach.
25	575 NORTH			0.5	Twin approach.
25	575 WEST			0.25	Single approach.
28	300 SOUTH			0.25	Single approach.
3.	7	3.8		1.5	Assumed width of 40 feet.
3.	8	4.8		9.0	Assumed width of 25 feet.
30	000 SOUTH			0.25	Single approach.
33	300 SOUTH			0.5	Twin approach.
34	125 WEST			0.25	Single approach.
34	150 SOUTH			0.25	Single approach.
35	550 WEST			0.25	Single approach.
36	600 WEST			0.25	Single approach.
38	350 SOUTH			0.25	Single approach.
39	975 WEST			0.25	Single approach.
4.	8	5.2		4.0	Assumed width of 27 feet.
40	00 SOUTH			0.25	Single approach.

Version: 1

SR-134: FROM SR-37 TO SR-126

	SR-134; FI	ROM SR-37 TO	O SR-126	
Line/Sheet From Station	From Offset To Station	To Offset	Qty	Comment
4000 SOUTH	I		0.25	Single approach.
4100 WEST			0.25	Single approach.
4200 WEST			0.25	Single approach.
4275 WEST			0.25	Single approach.
4350 WEST			0.25	Single approach.
4425 WEST			0.5	Twin approach.
4500 WEST			0.5	Twin approach.
4575 WEST			0.5	Twin approach.
5.2	6.0		7.5	Assumed width of 25 feet.
500 SOUTH			0.25	Single approach
6.0	6.3		3.0	Assumed width of 27 feet.
6.3	6.5		3.5	Assumed width of 45 feet.
6.5	6.6		1.5	Assumed width of 30 feet.
6.6	6.7		2.0	Assumed width of 45 feet.
6.7	6.8		1.0	Assumed width of 27 feet.
6.8	7.1		6.5	Assumed width of 60 feet.
7.1	7.9		7.25	Assumed width of 25 feet.
7.9	8.1		4.0	Assumed width of 50 feet.
8.1	8.5		3.75	Assumed width of 25 feet.
8.5	8.7		2.0	Assumed width of 26 feet.
8.7	8.8		1.5	Assumed width of 40 feet.
8.8	9.2		3.75	Assumed width of 25 feet.
9.2	9.5		4.5	Assumed width of 40 feet.
9.5	10.3		7.25	Assumed width of 25 feet.
900 SOUTH			0.25	Single approach
950 NORTH			0.25	Single approach.
NEW ROAD			0.25	Single approach. New road located to the west of the \ensuremath{w} entrance of Fremont.
SR-39			1.0	Twin approach.
0.04	3.7		32.5	Assumed width of 25 feet.
2200 NORTH	ł		1.0	Twin approach.
			141.25	

Note # Note

1 Assume an application rate of 0.15 gallons per square yard.

2 Assume a unit weight of 250 gallons per ton.

Detailed Report SP-0134(3)0 SR-134; FROM SR-37 TO SR-126

SP-0134(3)0 Version: 1

10 - ROADWAY Alt Group: 0 Alt #: 0

Item Number	Descript	ion			Use Qty Unit
	·				·
02765002*	Pavement Message				292 Each
	m Station From Offset	To Station	To Offset	Qty	Comment STOP BAR
	NORTH			1.0	
	00 SOUTH			1.0	STOP BAR
	00 NORTH			2.0	STOP BARS STOP BAR
	00 SOUTH			1.0	STOP BAR STOP BAR
	50 NORTH			1.0	STOP BARS
	00 SOUTH			2.0	
	75 NORTH			15.0	1 STOP BAR, 14 SCHOOL XING
	25 NORTH			13.0	1 STOP BAR, 12 SCOOL XING
	00 NORTH			1.0	STOP BAR
	00 NORTH			2.0	STOP BARS
	00 SOUTH			2.0	STOP BARS
	75 NORTH			2.0	STOP BARS
	50 NORTH			17.0	3 STOP BARS, 14 SCHOOL XING
	00 SOUTH			1.0	STOP BAR
	25 NORTH			26.0	2 STOP BARS, 24 SCHOOL XING
	00 NORTH			8.0	2 STOP BARS, 6 SCHOOL XING
	00 WEST			1.0	STOP BARS
	50 SOUTH			2.0	STOP BARS 2 STOP BARS, 10 SCHOOL XING
	75 NORTH			12.0	STOP BARS, 10 301100E XING
	75 WEST			1.0	STOP BAR STOP BAR
3.5	00 SOUTH	4.0		1.0 43.0	2 STOP AHEAD, 11 STOP BARS, 12 RAIL RAOD, 2
200	00 SOUTH			1.0	TURN ARROWS STOP BAR
	00 SOUTH			2.0	STOP BARS
	25 WEST			1.0	STOP BAR
	50 SOUTH			1.0	STOP BAR
	50 WEST			1.0	STOP BAR
	00 WEST			1.0	STOP BAR
	50 SOUTH			1.0	STOP BAR
	75 WEST			1.0	STOP BAR
	SOUTH			1.0	STOP BAR
	00 SOUTH			1.0	STOP BAR
	00 WEST			1.0	STOP BAR
	00 WEST			1.0	STOP BAR
	75 WEST			12.0	2 STOP BARS, 10 SCHOOL XING
	25 WEST			17.0	2 STOP BARS, 15 SCHOOL XING
	00 WEST			2.0	STOP BARS

SR-134; FROM SR-37 TO SR-126

Line/Sheet From Station From Offset	To Station	To Offset	Qty	Comment
4575 WEST			2.0	STOP BARS
500 SOUTH			1.0	STOP BAR
7.1	7.9		20.0	2 STOP AHEAD, 2 STOP BARS
7.9	8.1		18.0	12 SCHOOL XING, 1 SCHOOL
8.1	8.5		15.0	1 SCHOOL, 1 STOP AHEAD
8.5	8.7		11.0	1 STOP AHEAD, 2 STOP BARS
8.7	11.2		23.0	15, SCHOOL XING, 3 STOP BARS, 1 ONLY, 4 TURN ARROWS
900 SOUTH			1.0	STOP BAR
950 NORTH			1.0	STOP BAR
NEW ROAD			1.0	STOP BAR, New road located to the west of the west entrance on Fremont High
			292.0	

Version: 1

Note # Note

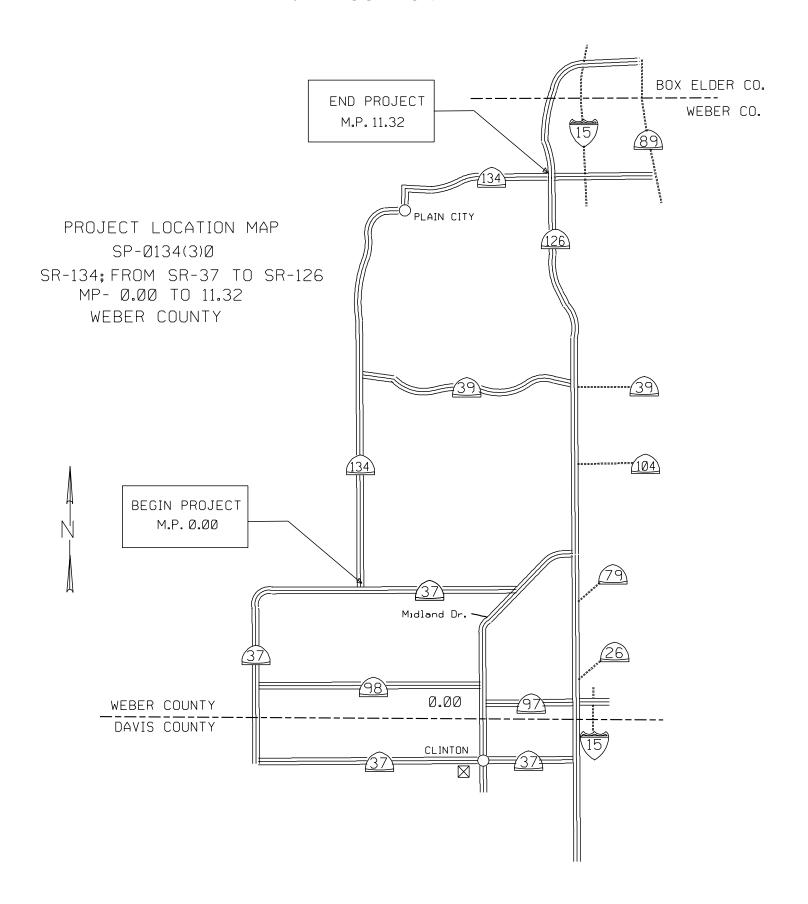
- 1 Identify exact location of existing markings before construction.
- 2 Assumed single coat for bid.
- 3 Use quantities for bidding, field verify location and placement of all markings before construction.

02765005*	Pavement Marking	Paint			275 gal
Line/Sheet From	Station From Offset	To Station	To Offset	Qty	Comment
0.0		11.3		275.0	Approximate number of gallons required for SR-134.
				275.0	

Note # Note

- 1 Assumed an application rate of 270 feet per gallon.
- 2 Estimate assumed use of single coat of paint.

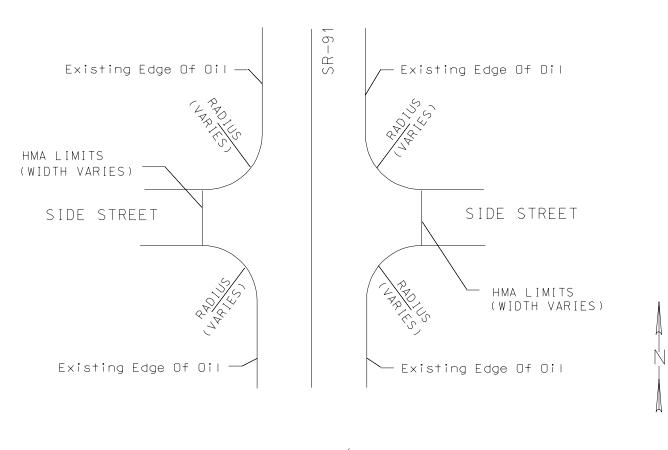
XI. LOCATION MAP



XII. Typical Sections or Detail Sheets



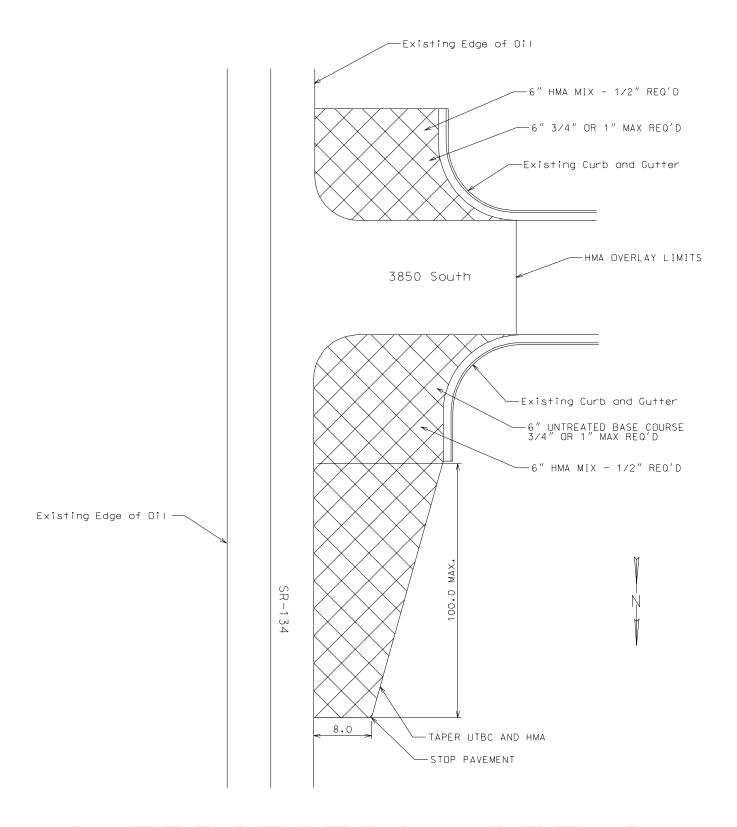
TYPICAL HMA LIMITS



HMA REQ'D

SEE SURFACING SUMMARY FOR APROXIMATE QUANTITIES AND LOCATIONS

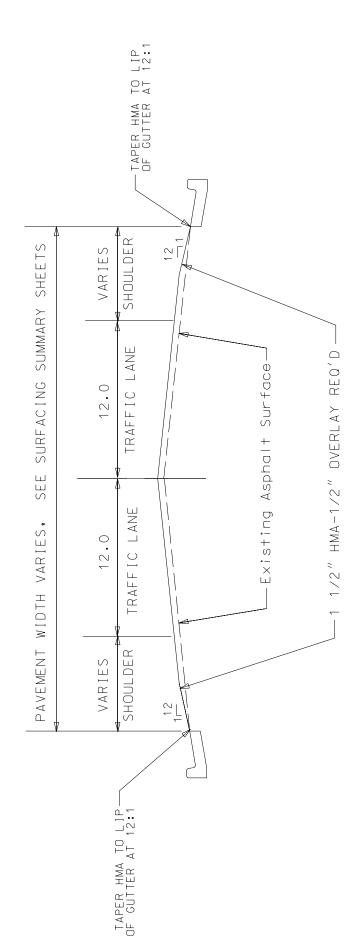
NOTE: PLACE HMA ON APPROACHES LISTED IN THE DETAILED REPORT PER LIMITS SPECIFIED OR AS PER ABOVE DETAIL.



INTERSECTION DETAIL

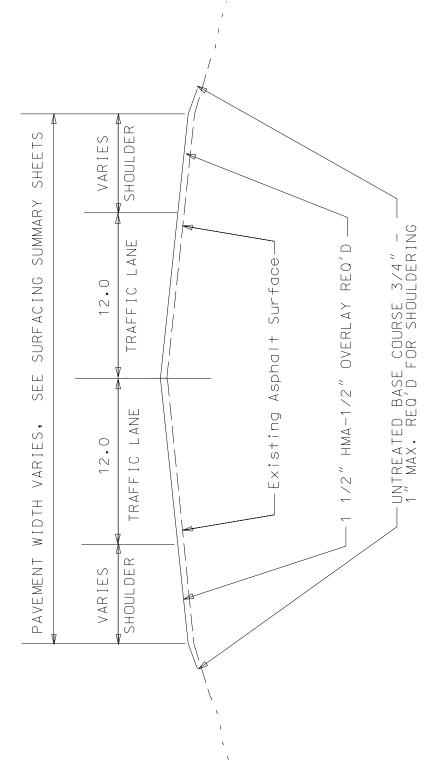
NOTE: PLACE 6" LIFT OF UTBC COMPACT AS PER SPEC. TERMINATE UTBC AND HMA AS SHOWN PER ABOVE DETAIL. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED. SEE SURFACING SUMMARY FOR APROXIMATE QUANTITIES.

SR-134



ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED PAVEMENT SECTIONS WITH CURB AND GUTTER VARIES, SEE SURFACING SUMMARY SHEETS FOR EXACT LOCATIONS. NOTE:

SR-134



NOTE: ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

XIII. STANDARD DRAWINGS INDEX

(Change Three, Dated 06/02/03)

UTAH DEPARTMENT OF TRANSPORTATION

U	NUMBER	TITLE	CURRENT DATE
		Advanced Traffic Management System (AT)	
	AT 1	Legend Sheet	07/03/02
	AT 2	Ramp Meter Details	07/03/02
	AT 3	Ramp Meter Sign Panel	07/03/02
	AT 4	Typical Ramp Meter Signal Head Mounting	07/03/02
	AT 5	Loop Installation	07/03/02
	AT 6	Conduit Details	07/03/02
	AT 7	Polymer-Concrete Junction Box Details	04/24/03
	AT 8	ATMS Cabinet w/120V Disconnect	07/03/02
	AT 9	ATMS Cab With Stepdown Transformer	07/03/02
	AT 10	Domed CCTV Details	07/03/02
	AT 11	CCTV Pole Detail	07/03/02
	AT 12	CCTV Pole Foundation For Dedicated CCTV Pole	07/03/02
	AT 13	120V VMS Cab Foundation Details	07/03/02
	AT 14	Weigh In Motion Piezo Detail	07/03/02
		Barriers (BA)	'
	BA 1A	Precast Concrete Full Barrier Standard Section	12/19/02
	BA 1B	Precast Concrete Full Barrier Standard Section	12/19/02
	BA 2	Precast Concrete Half Barrier Standard Section	07/03/02
	BA 3	Cast In Place Constant Slope Barrier	12/19/02
	BA 4	Beam Guardrail Hardware	07/03/02
	BA 4A	Guardrail Transition	07/03/02
	BA 4B	Beam Guardrail Installation	12/19/02
	BA 4C	Beam Guardrail Anchor Type I	12/19/02
	BA 5	Traffic Control Cable	07/03/02

U	NUMBER	TITLE	CURRENT DATE
		Catch Basins and Cleanouts (CB)	I
U	CB 1	Standard Catch Basin	07/03/02
	CB 2	Curb Inlet Catch Basin	04/24/02
	CB 3	Standard Transition Concrete Lined Ditch To Pipe Or Diversion Box	07/03/02
	CB 4	Solid Cover For Standard Drawing DB 1 MS-18 Loading	07/03/02
	CB 5	Standard Screw Gate And Frame	07/03/02
	CB 6A	Standard Drop Inlet Details General Notes And Installation Detail	07/03/02
	CB 6B	Standard Catch Basin And Cleanout Box Drop Inlet Type "A" Details	07/03/02
	CB 6C	Standard Catch Basin And Cleanout Box Drop Inlet Type "B" Details	07/03/02
	CB 6D	Standard Catch Basin And Cleanout Box Drop Inlet Type "C" Details	07/03/02
	CB 6E	Standard Catch Basin And Cleanout Box Drop Inlet With Attached Apron Details	07/03/02
	CB 6F	Standard Catch Basin And Cleanout Box Drop Inlet With Attached Apron Details	07/03/02
	CB 6G	Standard Catch Basin And Cleanout Box Drop Inlet Type "D" Details	07/03/02
	СВ 6Н	Standard Catch Basin And Cleanout Box Drop Inlet Type "D" Tables	07/03/02
	CB 7	Standard Curb And Gutter Drop Inlet	07/03/02
	CB 8A	Double Catch Basin	07/03/02
	CB 8B	Double Catch Basin	07/03/02
U	CB 9A	Standard Catch Basin and Cleanout Box Situation & Layout	07/03/02
U	CB 9B	Standard Catch Basin and Cleanout Box Section Details	07/03/02
	CB 9C	Standard Catch Basin and Cleanout Box Schedule Of Installation 18" to 42" RCP 12" to 48" CMP	07/03/02
	CB 9D	Standard Catch Basin and Cleanout Box Schedule Of Installation 48" to 66" RCP 60" to 78" CMP	07/03/02
	CB 10A	Standard Catch Basin and Cleanout Box Situation & Layout	07/03/02
	CB 10B	Standard Catch Basin and Cleanout Box Section Details	07/03/02
	CB 10C	Standard Catch Basin and Cleanout Box Schedule Of Installation 42" to 60" RCP 48" to 72" CMP	07/03/02

U	NUMBER	TITLE	CURRENT DATE
		Crash Cushions (CC)	
	CC 1	Crash Cushion Markings	07/03/02
	CC 2	Crash Cushion Drainage Details Guideline A	07/03/02
	CC 3	Crash Cushion Drainage Details Guideline B	07/03/02
	CC 4	Details For Placement Crash Cushions Type A, B, & D	07/03/02
	CC 5	Grading And Placement Detail Crash Cushion Type C	07/03/02
	CC 6	Crash Cushion Type E Sand Barrel Details	12/19/02
	CC 7	Grading & Installation Details Crash Cushion Type F	04/24/03
	CC 8	Grading & Installation Details Crash Cushion Type G	04/24/03
	CC 9A	Grading & Installation Details Crash Cushion Type H	04/24/03
	CC 9B	Grading & Installation Details Crash Cushion Type H	04/24/03
		Diversion Boxes (DB)	
	DB 1A	Standard Diversion Box/Cover Plate/Grating For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 1B	Standard Diversion Box Hinged Lid Details For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 1C	Standard Diversion Box Bicycle - Safe Grating Details For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 1D	Standard Diversion Box Three Gate Box Sections For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 1E	Standard Diversion Box Three Gate Box Sections For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 1F	Standard Diversion Box Three Gate Box Sections For 18" DIA. or 24" DIA. Pipe	07/03/02
	DB 2A	Standard Diversion Box w/Interchangeable Walls, Bottom Slab, Walls and Apron Detail	07/03/02
	DB 2B	Standard Diversion Box w/Interchangeable Walls, Quantities Schedule	07/03/02
	DB 2C	Standard Diversion Box w/Interchangeable Walls, Hand Slide Gate Details	07/03/02
	DB 2D	Standard Diversion Box Type "G" Hand Slide Details	07/03/02
	DB 2E	Standard Diversion Box Hinged Lid (Solid Cover Plate) Type "A" Details Type I Plan	07/03/02
	DB 2F	Standard Diversion Box Hinged Lid (Solid Cover Plate) Type "A" Details Type II Plan	07/03/02
	DB 2G	Standard Diversion Box Hinged Lid Solid Cover Type "B" Details	07/03/02

U	NUMBER	TITLE	CURRENT DATE
	DB 2H	Standard Diversion Box Hinged Lid Solid Cover Type "B" & "C" Details	07/03/02
	DB 3A Standard Diversion Box With Manhole Cover Situation And Layout		07/03/02
	DB 3B	Standard Diversion Box With Manhole Cover Up To 42" RCP and Up To 54" CMP	07/03/02
	DB 3C	Standard Diversion Box With Manhole Cover 48" - 72" RCP and 60" to 84" CMP	07/03/02
		Drainage (DG)	
	DG 1	Fill Height for Metal Pipe (Steel)	07/03/02
	DG 2	Fill Height for Metal Pipe (Aluminum)	07/03/02
	DG 3	Maximum Fill Height and End Sections For HDPE and PVC Pipes	12/19/02
	DG 4	Pipe Culverts Minimum Cover	12/19/02
	DG 5	Plastic Pipe, Metal Pipe or Pipe Arch Culvert Bedding	07/03/02
	DG 6	Precast Concrete Pipe Culvert	07/03/02
	DG 7	Gasketted Joints or Coupling Bands for C.M.P.	07/03/02
	DG 8	Metal Culvert End Sections	07/03/02
	DG 9	Miscellaneous Pipe Details	07/03/02
		Environmental Controls (EN)	
	EN 1	Temporary Erosion Control (Check Dams)	07/03/02
	EN 2	Temporary Erosion Control (Silt Fence)	04/24/03
	EN 3	Temporary Erosion Control (Slope Drain and Temporary Berm)	07/03/02
	EN 4	Temporary Erosion Control (Drop Inlet Barriers)	12/19/02
	EN 5	Temporary Erosion Control (Sediment Trap and Curb Inlet Barrier)	07/03/02
		Fence and Gates (FG)	
	FG 1A	Right-of-Way Fence and Gates (Wood Posts)	07/03/02
	FG 1B	Right-of-Way Fence and Gates (Wood Posts)	07/03/02
	FG 2A	Right-of-Way Fence and Gates (Metal Posts)	07/03/02
	FG 2B	Right-of-Way Fence and Gates (Metal Posts)	07/03/02
	FG 3	Swing Gates Type I for Gates Less Than 17'	07/03/02
	FG 4	Deer Gates	07/03/02

U NUMBE	R TITLE	CURRENT DATE
FG 5	Swing Gates Type II for Gates Wider Than 17'	07/03/02
FG 6	Chain Link Fence	07/03/02
	Grates, Frames, and Trash Racks (GF)	
GF 1	Manhole Frame And Grated Cover	07/03/02
U GF 2	Manhole Frame And Solid Cover	07/03/02
U GF 3	Rectangle Grate & Frame	07/03/02
GF 4	Directional Flow Grate & Frame	07/03/02
GF 5	Solid Cover & Frame	07/03/02
GF 6	Manhole Steps	07/03/02
GF 7	Standard Screw Grate & Frame	07/03/02
GF 8	2' x 2' Grate & Frame	07/03/02
GF 9	28" x 24" Directional Flow and Frame	07/03/02
GF 10	Standard Trash Racks 90E X-ing L	07/03/02
GF 11	Standard Trash Racks	07/03/02
GF 12	Standard Trash Racks	07/03/02
	General Road Work (GW)	
GW 1	Raised Median and Plowable End Section	12/19/02
GW 2	Concrete Curb and Gutter	04/24/03
GW 3	Concrete Curb and Gutter Details	07/03/02
GW 4	Concrete Driveways and Sidewalks	07/03/02
GW 5	Pedestrian Access	02/27/03
GW 6	Right-of-Way Marker	07/03/02
GW 7	Newspaper and Mailbox Stop Layout	07/03/02
GW 8	Newspaper and Mailbox Support Hardware	07/03/02
GW 9	Delineation Hardware	07/03/02
GW 10	Delineation Application	07/03/02
	Paving (PV)	1
PV 1	Joints for Highways with Concrete Traffic Lanes and Shoulders	07/03/02
PV 2	Pavement/Approach Slab Details	12/19/02

U	NUMBER	TITLE	CURRENT DATE
	PV 3	Concrete Pavement Details for Urban and Interstate	07/03/02
	PV 4	Concrete Pavement Details for Urban and Interstate	07/03/02
	PV 5	Urban Concrete Pavement Details	07/03/02
	PV 6	Rumble Strips	07/03/02
	PV 7	Rumble Strips - Typical Application	07/03/02
		Signals (SL)	<u> </u>
	SL 1	Traffic Signals Mast Arm Pole and Luminaire Extension	07/03/02
	SL 2	Traffic Signals Mast Arm Detail 25' Thru 65'	07/03/02
	SL 3	Underground Service Pedestal Details	07/03/02
	SL 4	Traffic Signals Mast Arm Pole Foundation	07/03/02
	SL 5	Breakaway Post Mounted Traffic Signal Pole	07/03/02
	SL 6	Power Source Details	07/03/02
	SL 7	Span Wire Signal Pole Detail	07/03/02
	SL 8	Signal Head Details	07/03/02
	SL 9	Pedestrian Signal Assembly	07/03/02
	SL 10	Controller Base Details	07/03/02
	SL 11	Traffic Signals Loop Detector Detail	07/03/02
	SL 12	Junction Box Details	07/03/02
	SL 13	Traffic Counting Loop Detector Detail	12/19/02
	SL 14	Light Pole Breakaway Base	07/03/02
	SL 15	Luminaire Breakaway Base Detail	07/03/02
	SL 16	Single Transformer Substation Details	07/03/02
	SL 17	Light Pole Anchor Base	07/03/02
	SL 18	Light Pole Foundation Extension	07/03/02
		Signs (SN)	
	SN 1	Bridge Load Limit Signs	07/03/02
	SN 2	Flashing School Sign	12/19/02
	SN 3	Overhead School Flasher	07/03/02
	SN 4	Flashing Stop Sign	12/19/02

U	NUMBER	TITLE	CURRENT DATE
	SN 5	Typical Installation for Milepost Signs	12/19/02
	SN 6	Not Used	
	SN 7	Placement of Ground Mounted Signs	07/03/02
	SN 8	Ground Mounted Timber Sign Post (P1)	12/19/02
	SN 9	Ground Mounted Tubular Steel Sign Post (P2)	07/03/02
	SN 10	Ground Mounted Square Steel Sign Post (P3)	07/03/02
	SN 11	Slipbase Ground Mounted Tubular Steel Sign Post (P4)	07/03/02
	SN 12A	Ground Mounted Sign Installation Details	07/03/02
	SN 12B	Ground Mounted Sign Installation Details	04/24/03
	SN 12C	Ground Mounted Sign Installation Details	07/03/02
		Striping (ST)	
	ST 1	Object Markers "T" Intersection & Pavement Transition Guidance	12/19/02
	ST 2	Freeway Turn Around Markings	07/03/02
U	ST 3	Typical Pavement Markings	07/03/02
U	ST 4	Crosswalks, Parking and Intersection Approaches	07/03/02
U	ST 5	Painted Median & Auxiliary Lane Details	07/03/02
	ST 6	Passing/Climbing Lanes Traffic Control	07/03/02
U	ST 7	Pavement Markings & Signs at Railroad Crossing	12/19/02
	ST 8	Plowable Pavement Markers	07/03/02
		Structures and Walls (SW)	
	SW 1A	Welded End Guard Unit	07/03/02
	SW 1B	Precast Concrete Cattle Guard	07/03/02
	SW 2	Noise Wall Placement Area	07/03/02
	SW 3A	Precast Concrete Noise Wall 1 of 2	12/19/02
	SW 3B	Precast Concrete Noise Wall 2 of 2	12/19/02
	SW 4A	Precast Concrete Retaining/Noise Wall 1 of 2	12/19/02
	SW 4B	Precast Concrete Retaining/Noise Wall 2 of 2	07/03/02

State-Orange Book With 8 ½" x 11" Plan Sheets

U	NUMBER	TITLE	CURRENT DATE
		Traffic Control (TC)	DATE
U	TC 1A	Construction Zone Channelization Devices	07/03/02
U	TC 1B	Construction Zone Signing	07/03/02
U	TC 2A	Traffic Control General	07/03/02
U	TC 2B	Traffic Control General	07/03/02
	TC 3	Traffic Control Project Limit Signing	07/03/02
	TC 4	Traffic Control Urban Intersections With Roadways Under 50 MPH	07/03/02
	TC 5	Traffic Control Urban Intersections With Roadways Under 50 MPH	07/03/02
	TC 6	Traffic Control Pedestrian Routing	07/03/02
	TC 7	Traffic Control Road Closed, Detour	07/03/02
	TC 8	Traffic Control Lane Closure	07/03/02
	TC 9	Traffic Control Multilane Closure	07/03/02
	TC 10	Traffic Control Expressway And Freeway Crossover/Turn-Around	07/03/02
	TC 11	Traffic Control Exit Ramp Gore	07/03/02
	TC 12	Traffic Control Entrance Ramp Gore	07/03/02
	TC 13	Traffic Control Shoulder-Haul Road	07/03/02
U	TC 14	Traffic Control Flagging Operation	07/03/02
U	TC 15	Traffic Control 2 Lane/ 2 Way Seal Coat With Cover Material	07/03/02
U	TC 16	Traffic Control Pavement Marking	07/03/02

XIV. Special Provisions

SPECIAL PROVISION Project #SP-0134(3)0

SECTION 00725 M

SCOPE OF WORK

PART 1 GENERAL

1.2 INTENT OF CONTRACT

Modify Article 1.2 by adding the following:

- B. Project to provide an HMA Overlay from R.P. 0.0 R.P. 11.30 on SR-134. Include all paved surfaces of the roadway on SR-134 within the limits listed in the Detailed Report. Construct new HMA curb match at the intersection of SR-134 and 3850 South at R.P. 0.25. Replace all pavement markings located throughout the entire project. Place new paint messages at all intersections and existing locations on SR-134.
- C. Schedule major work during off peak traffic periods and during school hours. No road closure will be allowed. Limit traffic delays to less than ten minutes. Peak traffic assumed to be from 7 AM to 8 AM and from 3 PM to 5 PM but hours may be modified by the Engineer. All traffic lanes to be open during non-working hours.
- D. Substantial completion within 30 working days.
- E. No work permitted on State recognized holidays or holiday weekends.
- F. Coordinate work with Weber County School District and Fremont High School before construction begins.

SPECIAL PROVISION SP-0134(3)0

SECTION 01892

RECONSTRUCT CATCH BASIN, CLEANOUT, METER, VALVE, MANHOLE, AND MONUMENT BOXES

PART 2 PRODUCTS

2.1 CONCRETE

Modify Section 2.1 A. by adding the following:

- 2.1 A.
- 1. Minimum 1450 psi within 12 hours and 2030 psi within 24 hours.
- 2. Maximum water cement ratio 0.4.
- 3. Minimum 740 lb/yd3 of cement.
- 4. Add accelerators (excluding calcium chloride) or plasticizers as necessary to achieve quick set and strength.
- 5. Add a minimum of 230 lb/yd3 of steel fiber to increase strength of mix. Poly-fibers may also be included in addition to steel if part of a standard mix design.
- 6. Steel fiber to be cold drawn with deformed ends 1.2in 2.4in in length and .02in .04in in diameter. Minimum steel tensile strength of 120,000 PSI (ASTM 820).

PART 3 EXECUTION

3.1 RISE BOXES

Modify section 3.1 B by adding the following:

- 3.1 B.
- 1. Correctly reference all boxes prior to surfacing.
- 2. Contact Qwest prior to reconstruction of Qwest manholes. Contact:Jeff Stapley, phone number (801) 974-8150.
- 3. Reconstruct top section of cleanout box and catch basin using #5

 Palear to be tied to existing reinforcing steel with a minimum 6 in ever

Rebar to be tied to existing reinforcing steel with a minimum 6 in. overlap. The existing steel in the structure must be exposed to allow for the required overlap.

- 4. Schedule work during non peak traffic hours.
- 5. Begin adjustment work on only the number of boxes that can be completed in a 24-hour period. (including concrete set to 1450 psi when

Reconstruct Catch Basin, Cleanout, Meter, Valve, Manhole, and Monument Boxes 01892M - 1 of 2

- raising boxes)
- 6. Notify appropriate utility companies prior to making any adjustments.
- 7. Contractor shall be responsible for removal of any debris that enters the manhole or catch basin.
- 8. Cooperate with utility company to allow access to manholes during construction process if necessary.
- 9. Consolidate concrete using a high frequency internal vibrator.
- 10. Remove traffic control devices as soon as possible after 1450 psi has been reached or at the direction of the engineer.
- 11. Use steel plates as needed to comply with traffic control limitations.

SPECIAL PROVISION SP-0134(3)0

SECTION 02721 M

UNTREATED BASE COURSE

PART 2 PRODUCTS

2.1 AGGREGATES

Replace Section 2.1 tables 3 and 4 with the following:

Table 3

Aggregate Properties			
Dry Rodded Unit Weight	Not less than 75 lbs/ft ³	AASHTO T 19	
Material Passing No.40 Sieve	P. I. 0 to 8	AASHTO T 90	
Aggregate Wear	Not to exceed 50 percent.	AASHTO T 96	
Dry Weight Values	Within bands shown in Table 4		
Gradation Limits	Table 4	AASHTO T 11	
		AASHTO T 27	

Table 4

	Tuble 1			
Gradatio	Gradation Limits - Single Value Job-Mix Formula			
Sieve Size	Sieve Size Percent Passing of Total Aggregate (Dry Weight)			
	1-1/2 inch	1 inch	3/4 inch	
1-1/2 inch	100			
1 inch		100		
3/4 inch	81 -91		100	
½ inch	67 - 77	79 - 91		
3/8 inch			78 - 92	
No. 4	43 - 53	49 - 61	55 - 67	
No. 16	23 - 29	27 - 35	28 - 38	
No. 200	6 - 14	7 - 14	7 - 14	

Untreated Base Course: Based on fine and coarse aggregate having approximately the same bulk specific gravities.

PART 3 EXECUTION

3.2 INSTALLATION

Delete subsection 3.2 C and replace with the following:

C. Maintain the optimum moisture content ±2 percent at the time of compaction. AASHTO T 180, Method D. Untreated base course for shoulder dressing will be accepted on a basis of visual inspection and will require a minimum of two roller passes. Use a hand vibratory compactor around obstacles. Approval from the engineer in writing will be required for deviation from this subsection.

SPECIAL PROVISION PROJECT #SP-0134(3)0

SECTION 02742S

PROJECT SPECIFIC SURFACING REQUIREMENTS

PART	`1	GENERAL
1.1	SECT	ION INCLUDES
	A.	Required PG Asphalt or emulsion.
	B.	Number of gyrations to use for Superpave Mix Design.
PART	2	PRODUCTS
2.1	MIXE	S. S
	A.	Hot Mix Asphalt (HMA): (Refer to bid item for size)
		1. PG <u>64-34</u> Asphalt.
		2. N initial 8 N design 100 N final 160
	B.	Open-Graded Surface Course:
		1. PG N/A Asphalt.
	C.	Chip Seal
		1. Type of asphalt emulsion <u>N/A</u>
PART	3	EXECUTION Not used.

END OF SECTION

SPECIAL PROVISION PROJECT # SP-0134(3)0

SECTION 02765S

PAVEMENT MARKING PAINT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Furnish Acrylic Water Based pavement marking paint meeting Federal Specification TTP-1952 D and refer to 2.2 for resin requirement.
- B. Apply to hot mix asphalt or Portland cement as edge lines, center lines, broken lines, guide lines, contrast lines, symbols and other related markings.
- C. Remove pavement markings.

1.2 REFERENCES

- A. AASHTO M 247: Glass Beads Used in Traffic Paint.
- B. ASTM D 562: Consistency of Paints Measuring Krebs Unit (KU) Viscosity Using the Stormer-Type Viscometer.
- C. ASTM E 1347: Color and Color-Difference Measurement by Tristimulus Colorimetry.
- D. ASTM D 2205: Selection of Tests for Traffic Paints.
- E. ASTM D 2743: Uniformity of Traffic Paint Vehicle Solids by Spectroscopy and Gas Chromatography.
- F. ASTM D 2805: Hiding Power of Paints by Reflectometry.
- G. ASTM D 3723: Pigment Content of Water-Emulsion Paints.
- H. ASTM D 3960: Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.
- I. ASTM D 4451: Pigment Content of Paints.

- J. ASTM D 5381: X-Ray Fluorescence (XRF) Spectroscopy of Pigments and Extenders
- K. Federal Standards 595B, 37875, 33538,11105 and TTP-1952 D.

1.3 ACCEPTANCE

- A. Provide fixtures (ball valves, gate valves or other) on paint truck for the purposes of obtaining field samples.
- B. Agitate the paint to allow for thorough mixing. Follow paint manufacturer's recommendation for agitation and mixing times.
- C. Stop all agitation before sample is drawn.
- D. All meters on the paint truck must be calibrated annually and certified for application rate verification. Calibration tolerances for meters must be +/- 0.5 pounds per gallon. Keep a clean, legible copy of calibration report with the paint truck. Certifications performed by company personnel, meter calibration companies or UDOT Equipment Certification Unit.

E. UDOT ENGINEER:

- 1. Visually inspects each line to verify bead adhesion and compliance with specified line dimensions requirements.
- 2. Verifies that the paint and beads are being applied within specified tolerances a minimum of once each production day.
- 3. Verifies quantities used by either method:
 - a. Measuring both paint and bead tanks prior to and after application.
 - b. Witnessing the meter readings prior to and after application.
- 4. Randomly sample each color of pavement marking paint used, minimum of one sample each per project.
 - a. Use a clean one pint metal paint can.
 - b. Sample paint immediately after the paint has been completely agitated. (Stop all agitation before drawing the sample)
 - c. Allow a minimum of 10 gallons to be applied prior to taking sample.
 - d. Fill the sample container to within ½ inch of full.
 - e. Seal the containers immediately by tightly attaching the container's lid.
 - f. Submit paint samples to Central Chemistry Lab for acceptance.
 - g. For each sample include:
 - Project Number
 - Project Name
 - Paint Manufacturer
 - Batch Number

- Striping Company
- Color of Paint
- Est. Quantity
- Date Sampled
- Sampler's name
- F. Repaint any line or symbol failing to meet bead adherence and dimensional requirements.
- G. Price Reductions for Pavement Markings installed below the specified wet mil thickness are outlined in Table I.
- H. Contractor will repaint pavement markings that fail to meet the quantitative requirements of Article 2.2 Paint, at no cost to the Department.

Table I - Price Reduction for Wet Mil Thickness		
	Pay Factor	
At the specified mil thickness	1.00	
1-10 percent below the Specified wet mil thickness	0.75	
11-15 percent below the Specified wet mil thickness	0.50	
More than 15 percent below the Specified wet mil thickness	Repaint Pavement Markings	

PART 2 PRODUCTS

2.1 Manufacturers

A. Select an acrylic water based pavement marking paint manufacturer from the Accepted Products Listing (APL) maintained by the UDOT Research Division.

2.2 Paint

A. Follow Federal Standards 595B, 37875, 33538, and 11105. Meet the following quantitative requirements for Acrylic Water Based Paint listed in Table II:

Table II - Quantitative Requirements						
Property	White	Yellow (lead free)	Black	Test		
Pigment: Percent by weight	62.0 +/-	62.0 +/-	62.0 +/-	ASTM D 3723		
Total Solids: Percent by weight, minimum	77.0	77.0	77.0	ASTM D 2205		
Nonvolatile vehicle: Percent by weight vehicle, minimum*	40.0	40.0	40.0	ASTM D 2205		
Viscosity, KU @ 77 degrees F	80 - 95	80 - 95	80 - 95	ASTM D 562		
Volatile Organic Content(VOC): lbs/gal, maximum	1.25	1.25	1.25	ASTM D 3960		
Directional Reflectance: Minimum	92.0	50.0	N/A	ASTM E 1347		
Dry Opacity: Minimum (5 mils wet)	0.95	0.95	N/A	ASTM D 2805		

^{*} The binder shall be 100 percent acrylic, a minimum of 40 percent, by weight, as determined by infrared analysis and other chemical analysis available to UDOT (ASTM D 2205). Consisting of either Rohm and Haas Fastrack HD- 21A or Dow DT-400NA.

B. Additional requirements:

- 1. Free of lead, chromium, or other related heavy metals ASTM D 5381.
- 2. ASTM D 2743, ASTM D 4451 and ASTM D 5381: Tests used to verify paint samples meet "Accepted Products Listing."

2.3 GLASS SPHERE (BEADS) USED IN PAVEMENT MARKING PAINT

- A. Specific Properties: Meet AASHTO M 247.
 - 1. Gradation:

Passing a No. 14 sieve, percent	95 - 100
Passing a No. 16 sieve, percent	80 - 95
Passing a No. 18 sieve, percent	10 - 40
Passing a No. 20 sieve, percent	0 - 5
Passing a No. 25 sieve, percent	0 - 2

- 2. Beads having a Silane adhesion coating.
- 3. Roundness The glass beads will have a minimum of 80 percent true spheres.
- B. Beads used in Temporary Pavement Markings meet AASHTO M247 Type II uniform gradation.

PART 3 EXECUTION

3.1 PREPARATION

- A. Line Control.
 - 1. Establish control points at 100 ft intervals on tangent and at 50 ft intervals on curves.
 - 2. Maintain the line within 2 inches of the established control points and mark the roadway between control points as needed.
 - a. Remove paint that is not placed within tolerance of the established control points and replace at no expense to the Department. Refer to article 3.4.
 - b. Maintain the line dimension within 10 percent of the width and length dimensions defined in Standard Drawings ST1 ST8.
- B. Remove dirt, loose aggregate and other foreign material and follow manufacturer's recommendations for surface preparation.

3.2 APPLICATION

A. Apply Pavement marking paint at the following Wet mil thickness requirements. 1. 20-25 wet mils for all markings.

Example Calculation: (Verify wet mil thickness)

Wet Mils =
$$(0.133681 \text{ ft}^3/\text{gal})$$
 * 12000 mil/ft
(X ft/gal)(Z ft)

Where,

X = application rate. (Meter readings or dipping tanks).

Z = line width measured in feet.

12000 = conversion from ft to mil

0.133681 = conversion from gallons to cubic feet.

For information only: Approximate application rate for required mil thickness requirements.

- 1. 4 inch Solid Line: From 190 to 240 ft/gal
- 2. 4 inch Broken Line: From 760 to 960 ft/gal
- 3. 8 inch Solid Line: From 95 to 120 ft/gal
- B. Refer to Table I for pavement markings that are less than 20 wet mils in thickness.
- C. No additional payment for pavement markings placed in excess of 25 wet mils in thickness or exceeding dimensional requirements outlined in Article 3.1 paragraph A.
- D. Painted Legends and Symbols 1 gallon per 80 square feet. Provide Engineer calculations of legends and symbols for pay determination.
- E. Glass Sphere (Beads): Apply a minimum of 8 lbs/gal of paint, the full length and width of line and pavement markings.
 - 1. Do not apply glass beads to contrast lines (black paint).
- F. Begin striping operations no later than 24 hours after ordered by the Engineer.
- G. At time of application apply lines and pavement markings only when the air and pavement temperature are:
 - 1. 50 degrees F and rising for Acrylic Water Based Paint.
- H. Comply with Traffic Control Drawing TC-16

3.3 CONTRACTOR QUALITY CONTROL

- A. Application Rate: Verify that the paint and beads are being applied within specified tolerances prior to striping.
- B. Curing: Protect the markings until dry or cured. In the event that the uncured marking is damaged the marking will be reapplied and track marks left on the pavement will be removed at no additional cost to the Department.

3.4 REMOVE PAVEMENT MARKINGS

- A. Use one of these removal methods:
 - 1. Grinding
 - 2. High pressure water spray
 - 3. Sand blasting
 - 4. Shot blasting.
- B. Do not eliminate or obscure existing striping, in lieu of removal, by covering with black paint or any other covering material.
- C. Use equipment specifically designed for removal of pavement marking material.

END OF SECTION